## HATCO REMEDIATION PROJECT

## **UPDATE ON SITE-WIDE CAP**

Meeting with USEPA July 16, 2020

### Introductions

- Weston Solutions, Inc.
- Lanxess Solutions USA, Inc.
- Tetra Tech Inc.
- USEPA

## Site Background

### Site History

- 1954 Hatco Chemical Plant
- Process wastes handled in four settling ponds and muck area
- PCB use began in 1960s
- Facility discharge connected to MCUA in 1970

### **Project History**

- Pre 2000 various investigation and remediation efforts by Hatco/W.R. Grace
- 2001 RAWP by URS on behalf of Grace.
- Risk-Based Disposal Approval, dated March 30, 2005, issued by letter from USEPA to Weston
- April 2005 Environmental Liability transfer to Weston
- August 2005 Weston Consolidated RAWP
  - August 2009 RAWP Addendum 3
- 2006 through today ongoing remediation efforts

### Onsite Remediation Overview

### **Summary of Remedial Activities**

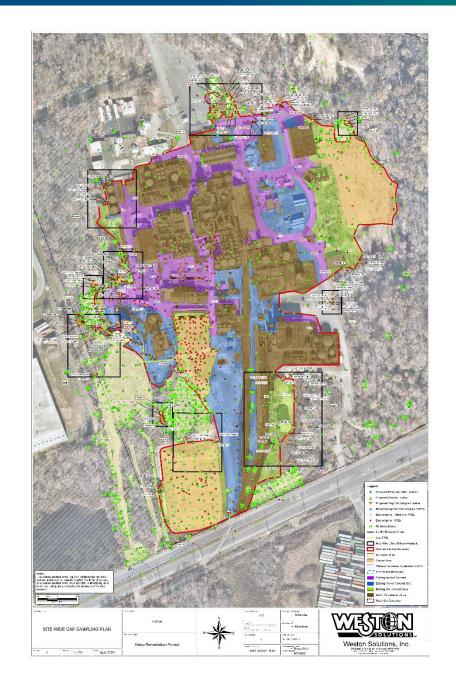
- Removal and offsite disposal of sludges, LNAPL and soil containing concentrations of 500 mg/kg or greater PCBs
- Onsite consolidation of soils containing between 2 and 500 mg/kg PCBs beneath an engineered cap
- Removal of Hatco related contamination from soil and sediments south and west of the site (Woodbridge Pond, Channels A, B, C & D)
- Deed notice for all onsite locations with contaminant concentrations greater than applicable unrestricted use criteria
- Interim remedial measures consisting of LNAPL recovery via recovery wells and trenches

#### Onsite Remediation Activities to Date

- LNAPL Recovery operations
- Scrape Area excavations 2007 to 2013
  - Excavation removal of contaminated soil from more than 100 discrete areas outside of the limits of the planned cap
  - Offsite disposal and onsite consolidation beneath engineered cap
- Closure of former wastewater lagoons and liner installation: 2007 to 2009
- Southeast Leg Remediation: 2014 to 2016
- Northeast Impoundment Remediation: 2015 to 2016
- Former Lagoon Cap Construction: 2017 to 2018
- Slingtail Creek streambank armoring in 2019 and 2020

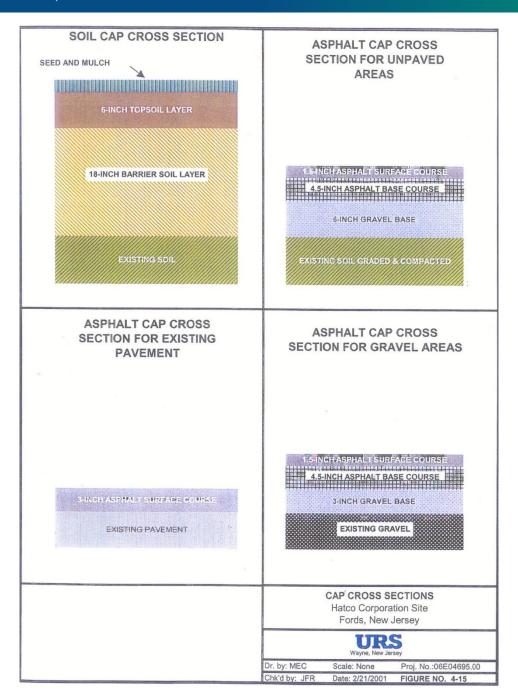
### **Current Status**

- Site-Wide Cap Sampling Program underway
  - Define the limits of the cap
  - Define additional removal areas
- Survey will be to be completed next month
- Cap Design

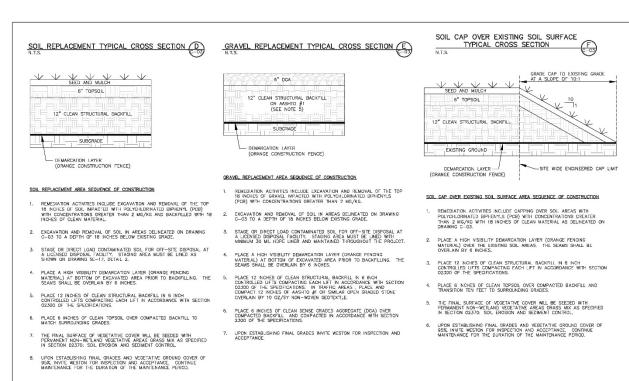


## Cap Components

- 2005 Consolidated RAWP
  - Soil/Gravel Cap
  - Asphalt Cap



# Example Details – Soil/Gravel Areas



#### SURFACE TYPICAL CROSS SECTION GRADE CAP TO EXISTING GRADE AT A SLOPE OF 10:1 6" DCA OR AASHTO # (SEE NOTE 5 - EXISTING GROUND -

-SITE WIDE ENGINEERED CAP LIMIT

GRAVEL CAP OVER EXISTING GRAVEL

#### GRAVEL CAP OVER EXISTING GRAVEL SURFACE AREA SEQUENCE OF CONSTRUCTION

(ORANGE CONSTRUCTION FENCE)

- REMEDIATION ACTIVITIES INCLIDE CAPPING OVER GRAVEL AREAS WITH POLYCHLORINATED BIPHENYS (PCB) WITH CONCENTRATIONS GREATER THAN 2 MG/KG WITH 18 INCHES OF CLEAN MATERIAL AS DELINEATED ON DRAWNO C-O3.
- 2. PLACE A HIGH VISIBILITY DEMARCATION LAYER FORANGE FENCING MATERIAL) OVER THE EXISTING SOIL AREAS. THE SEAMS SHALL BE OVERLAIN BY 6 INCHES.
- PLACE 12 INCHES OF CLEAN STRUCTURAL BACKFILL IN 6 INCH CONTROLLED LIFES COMPACTING EACH LIFT IN ACCORDANCE WITH SECTION 02300 OF THE SPECIFICATIONS. IN TRAFFICA AREAS, PLACE AND COMPACT 12 INCHES OF ANASHTO #1 OR SMILLAR OPEN GRADED STONE OVERLAIN BY 10 0Z/SY NON-MOVEN GEOTEXTILE.
- PLACE 6 INCHES OF CLEAN DENSE GRADED AGGREGATE (DGA) OVER COMPACTE BACKFILL AND TRANSITION TO THE SURROUNDING GRADE. COMPACT IN ACCORDANCE WITH SECTION 2300 OF THE SPECIFICATIONS.
- UPON ESTABLISHING FINAL GRADES INVITE WESTON FOR INSPECTION AND ACCEPTANCE.

#### PRELIMINARY DRAFT FOR DISCUSSION PURPOSES ONLY

SA/B KS REMSION A - 30% DESIGN ISSUED FOR REVIEW

30% DESIGN NOT FOR CONSTRUCTION



## Example Details – ASPHALT AREAS

